		<u> </u>	XV _
	Application No.	Applicant(s)	38/
	10/020,207	SUZUKI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	lda M Soward	2822	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits (GHTS). This application is	n this application. If not included unication will be mailed in due course. <b>T</b>	
1. $\boxtimes$ This communication is responsive to <u>to the Applicants' amount</u>	endment filed June 16, 200	<u>4</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-27 and 31-54</u> .			
3. 🗵 The drawings filed on 18 December 2001 are accepted by	the Examiner.		
4.	e been received. e been received in Application cuments have been received of this communication to file IENT of this application.  itted. Note the attached EX es reason(s) why the oath of the submitted. son's Patent Drawing Review s Amendment / Comment of the header according to 37 Cl sit of BIOLOGICAL MAT	on No  d in this national stage application from a reply complying with the requirement AMINER'S AMENDMENT or NOTICE Or declaration is deficient.  W ( PTO-948) attached  In the Office action of the drawings in the front (not the back) of R 1.121(d).  ERIAL must be submitted. Note the	s
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date</li></ul>	6. ☐ Interview S Paper No. 98), 7. ☒ Examiner's	Informal Patent Application (PTO-152)  ummary (PTO-413),  /Mail Date  Amendment/Comment  Statement of Reasons for Allowance  Michael Trinh  Primary Examiner	

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## **DETAILED ACTION**

This Office Action is in response to the Applicants' amendment filed June 16, 2004.

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffrey S. Weaver on 08-23-04.

The application has been amended as follows: non-elected claims 28-30 have been cancelled.

## Allowable Subject Matter

Claims 1-27 and 31-54 are allowed.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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The following patents are cited to further show the state of the art with respect to substrates in integrated circuit (IC) packages:

Chillara et al. (5,648,679) Combs (US 6,724,071 B2)

Dozier, II et al. (US 2004/0072456 A1) Khan et al. (US 2002/0109226 A1)

Mess et al. (US 2001/0040279 A1) Ooi et al. (US 6,724,080 B1)

Toshio et al. (US 6,617,193 B1) Zhao et al. (US 2002/0185734 A1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday, 6:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Trinh Primary Examiner Application/Control Number: 10/020,207

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